

Abstract

Methods and apparatus for direct coronary
revascularization wherein a transmyocardial passageway is
formed between a chamber of the heart and a coronary blood
5 vessel to permit blood to flow therebetween. In some
embodiments, the transmyocardial passageway is formed between
a chamber of the heart and a coronary vein. The invention
includes unstented transmyocardial passageways, as well as
transmyocardial passageways wherein protrusive stent devices
10 extend from the transmyocardial passageway into an adjacent
coronary vessel or chamber of the heart. The apparatus of the
present invention include protrusive stent devices for
stenting of transmyocardial passageways, intraluminal valving
devices for valving of transmyocardial passageways,
15 intracardiac valving devices for valving of transmyocardial
passageways, endogenous tissue valves for valving of
transmyocardial passageways, and ancillary apparatus for use
in conjunction therewith.

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